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of

2

08/943,546

Filing Date

October 3, 1997

First Named Inventor

Averkion

Group Art Unit

3737

Examiner Name

Mr. F. Jaworski

Attorney Docket Number

ATL 150

[illegible][illegible]

[Signature]

8-27-98

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete If Known

Application Number 08/943,546
Filing Date 10/3/97
First Named Inventor Averkrou
Group Art Unit 3737
Examiner Name F. J. J. J. J.
Attorney Docket Number ATL-150

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
✓	14	F. DUNN ET AL., Nonlinear Ultrasonic Wave Propagation In Biological Materials, 1981 Ultrasonics Symposium at 527-32 (IEEE)	
✓	14	T. MUIR, Nonlinear Effects In Acoustic Imaging, Acoustical Imaging, vol. 9 at 93-109 (Plenum Press, NYC, 1980)	
✓	14	N. ICHIDA ET AL., Imaging The Nonlinear Parameter of a Medium, Ultrasonic Imaging, vol. 5, at 295-99 (Academic Press, 1983)	
✓	14	T. CHRISTOPHER, Finite Amplitude Distortion-Based Inhomogeneous Pulse Echo Ultrasonic Imaging, IEEE Trans. UHF, Ferro. & Freq. Contr., Vol. 44, Jan 1997, 123	
✓	14	P.N. BURNS ET AL., Harmonic Power Mode Doppler Using Microbubble Contrast Agents, J.E.M.U. v. 16, no. 4 at 132-42 (Masson, Paris, 1995)	
✓	14	P.N. BURNS, Harmonic Imaging with Ultrasound Contrast Agents, Clin. Radiology, v. 51, Suppl. 1, at 50-55 (Great Britain 1996)	
✓	14	P.N. BURNS ET AL., Harmonic Imaging Principles and Preliminary Results, Angiology vol. 47, no. 7 Part 2 at 563-574 (Jul. 1996 New York)	
✓	14	P.N. BURNS, Presentation of Papers Nos. 241, 243, 1046, 1438, 1682, 166 Supplements to Radiology (Nov 1992 v. 185, Nov 1993 v. 189, Nov 1994 v. 193, Nov 1995 v. 197, Nov 1996 v. 201)	
✓	14	M. AVERKROU, Experimental Investigation of Propagation and Reflection Phenomena in Finite Amplitude Sound Beams, Ph.D. thesis, Univ. of Texas, May 1994.	

Examiner Signature

[Signature]

Date

Considered

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Substitute for form 1449B/PTO		MAY 26 1998		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	08/943,546
				Filing Date	Oct. 3, 1997
				First Named Inventor	Averkio
				Group Art Unit	3737
				Examiner Name	Mr. Jaworski
				Attorney Docket Number	ATL-150
Sheet	1	of	1		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>MA</i>		M. AVERKIOU ET AL., Measurements of harmonic generation in a focused finite-amplitude sound beam, J. Acoust. Soc. Am., 98(6) at 3439-42 (December 1995)
<i>MA</i>		M. AVERKIOU ET AL., Self-demodulation of amplitude-and frequency-modulated pulses in a thermoviscous fluid, J. Acoust. Soc. Am 94(5) at 2876-83 (November 1993)
<i>MA</i>		B. WARD ET AL., Nonlinear propagation applied to the improvement of resolution in diagnostic medical ultrasound, J. Acoust. Soc. Am 101(1) at 143-54 (January 1997)
<i>MA</i>		B. SCHROPE ET AL., Simulated Capillary Blood Flow Measurement Using a Nonlinear Ultrasonic Contrast Agent, Ultrasonic Imaging 14 at 134-58 (Ac. Press 1992)
<i>MA</i>		T. PORTER, Improved Myocardial Contrast with Second Harmonic Transient Ultrasound Response Imaging in Humans Using Intravenous Perflubrocarbon-Exposed Sonicated Dextrose Albumin, JACC 27(6) at 1497-501 (May 1996)
<i>MA</i>		B. SCHROPE ET AL., Second Harmonic Ultrasonic Blood Perfusion measurement, Ultrasound in Med. & Biol. 19(7), at 567-79 (Pergamon Press 1993)
<i>MA</i>		T. CHRISTOPHER, Finite Amplitude Distortion and its Relationship to Linear Derating Formulae for Diagnostic Ultrasound Systems, Ultrasound in Med. & Biol., 22(8) at 1103-16 (1996)

Examiner Signature	<i>[Signature]</i>	Date Considered	8-27-98
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M	7	STARRITT, Evidence for ultrasonic finite amplitude distortion in muscle using medical equipment, JASA 77(1), Jan 1985 at 302-06	
	8	MUIR, Prediction of nonlinear acoustic effects at biomedical frequencies and intensities, Ult in Med. & Biol, Vol 6 at 345-57 (1980)	
	9	CARSTENSEN, Demonstration of nonlinear acoustical effects at biomedical frequencies and intensities, Ult. in Med. & Biol. Vol 6 at 359-68 (1980)	
	10	STARRITT, The development of harmonic distortion in pulsed finite-amplitude ultrasound passing through liver, Phys. Med. Biol. Vol 31, no 12, 1401-09 (1986)	
	11	WARD, Non-linear propagation applied to the improvement of lateral resolution in medical ultrasound scanners, 1995 World Cong. on Ult. at 965-68	
	12	LAW, Ultrasonic determination of the nonlinearity parameter B/A for biological media, JASA 69(4), April 1981 at 1210-12	

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